

Title (en)

VOLUME-MODIFIED CASTING COMPOUNDS BASED ON POLYMERIC MATRIX RESINS

Title (de)

VOLUMENMODIFIZIERTE VERGUSSMASSEN AUF DER BASIS POLYMERER MATRIXHARZE

Title (fr)

MASSE DE REMPLISSAGE A MODIFICATION DE VOLUME A BASE DE RESINE A MATRICE POLYMERE

Publication

EP 1303567 B1 20041208 (DE)

Application

EP 01942942 A 20010702

Priority

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- CH 0100409 W 20010702
- EP 00810620 A 20000714

Abstract (en)

[origin: EP1172408A1] A volume modified epoxy resin casting composition comprises a three-dimensional cross-linked polysiloxane in dispersed form having a particle size of 0.02-50 μm that may react with the epoxy resin and/or the curing agent and a linear or branched siloxane compound having reactive groups that may react with the epoxy resin and/or hardener. A volume modified casting composition (I) based on a curable epoxy resin comprising an epoxy resin, curing agent, optionally an accelerator and other additives such as filler, flexibilizing agents and coloring agents is characterized in that the composition (I) comprises (A) a three-dimensional cross-linked polysiloxane in dispersed form having a particle size of 0.02-50 μm that may react with the epoxy resin and/or the curing agent, (B) a linear or branched siloxane compound having reactive groups that may react with the epoxy resin and/or hardener and optionally (C) a low mol. wt. oligomeric siloxane compound. An Independent claim is included for a process for the production of the composition (I) such that at least a portion of the epoxy group containing components (A) and (B) are pre-mixed and pre-hardened or at least a portion of the hydroxyl, amine or carboxyl containing components (A) and (B) are pre-mixed with the epoxy resin and pre-hardened.

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C08L 63/00

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